

Ship Feb 15

Order ID 140899

\*140899\*

Page 1

January 22, 2016 1:47:50 PM

Item ID: 646.4001

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Item Name: AS350 Cable Cutter System

Stop \*NS2\*

Start Date: 1/22/2016 Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 2/15/2016 Req'd Qty: 1.00

\*1\*

Customer:

Reference:

Approvals: Process Plan: SJA Date: 20160122

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| 646.4000 | B            |

|                               |                                                   |      |                  |  |  |  |  |  |  |
|-------------------------------|---------------------------------------------------|------|------------------|--|--|--|--|--|--|
| 100                           | Document Control                                  | 0.00 | DAS<br>6<br>9-89 |  |  |  |  |  |  |
| *100*                         | DOCUMENT CONTROL                                  |      |                  |  |  |  |  |  |  |
| DC                            | Memo                                              | 0.00 |                  |  |  |  |  |  |  |
| Doc.Control -USB or Paperwork | Photocopy bluefile & type labels per PPP 646.4001 |      |                  |  |  |  |  |  |  |

① PD 16-02-16

|     |          |      |  |  |  |  |  |  |  |
|-----|----------|------|--|--|--|--|--|--|--|
| 110 | Pick Kit | 0.00 |  |  |  |  |  |  |  |
|-----|----------|------|--|--|--|--|--|--|--|

|           |      |      |  |  |  |  |  |  |  |
|-----------|------|------|--|--|--|--|--|--|--|
| *110*     |      |      |  |  |  |  |  |  |  |
| Packaging | Memo | 0.00 |  |  |  |  |  |  |  |
| Packaging |      |      |  |  |  |  |  |  |  |

DAS 6 9-89  
JAN 26 2016

|     |                                         |      |  |  |  |  |  |  |  |
|-----|-----------------------------------------|------|--|--|--|--|--|--|--|
| 120 | QC4- 100% Inspect kits for completeness | 0.00 |  |  |  |  |  |  |  |
|-----|-----------------------------------------|------|--|--|--|--|--|--|--|

|                 |      |      |  |  |  |  |  |  |  |
|-----------------|------|------|--|--|--|--|--|--|--|
| *120*           |      |      |  |  |  |  |  |  |  |
| QC              | Memo | 0.00 |  |  |  |  |  |  |  |
| Quality Control |      |      |  |  |  |  |  |  |  |

DAS 9 9-89  
16-02-16

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                             |                                                                                                                                                                                    |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                 |                                   |                                                                                                                    |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
|--------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|---------------------------------------------|-----------------------------------|---------------------------------------|------------------------------------------------|------------------------------------|--------------------------------|-----------------------------------------------|----------------------------------------|-----------------------------------|---------------------------------|-----------------------------------------------|-------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------------------|------------------------------------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------|------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|-------------------------------------|---------------------------------------------|-------------------------------------------|-----------------------------------|--------------------------------------|----------------------------------|----------------------------------|-------------------------------------------|----------------------------------|-------------------------------------|----------------------------------------|-------------------------------------|---------------------------------|------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------------------|---------------------------------------|----------------------------------|-------------------------------------|----------------------------------------------|----------------------------------------|--------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|---------------|--|--|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |                                             | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |                                           | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                                           |                                 |                                   |                                                                                                                    |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
| Date :                                                       |                                             | Step #:                                                                                                                                                                            |                                           | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                 |                                   | MRB (QS1042) Approval                                                                                              |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
| Description Work Order Deviation                             |                                             |                                                                                                                                                                                    |                                           | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                 |                                   | Completed By<br><br><br>Lead hand / Supervisor<br>Approval Verification<br><br><br>QC / QA Coordinator<br>Approval |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
|                                                              |                                             |                                                                                                                                                                                    |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                 |                                   |                                                                                                                    |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
|                                                              |                                             |                                                                                                                                                                                    |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                 |                                   |                                                                                                                    |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
| Root Cause                                                   |                                             | FAULT CATEGORY                                                                                                                                                                     |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                 |                                   |                                                                                                                    |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |
| Environment <input type="checkbox"/>                         | No Re-verification <input type="checkbox"/> | Pressure/Forced <input type="checkbox"/>                                                                                                                                           | Temperature/Cure <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Positioned Wrong <input type="checkbox"/> | Design <input type="checkbox"/> | Operator <input type="checkbox"/> | Bending <input type="checkbox"/>                                                                                   | Set-up <input type="checkbox"/> | Folio/Program <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> | Doc/Data <input type="checkbox"/> | Offset/Setup <input type="checkbox"/> | Centre Not Concentric <input type="checkbox"/> | BOM/Route <input type="checkbox"/> | Grain <input type="checkbox"/> | Over/Under tolerance <input type="checkbox"/> | Equip/Tooling <input type="checkbox"/> | Supplier <input type="checkbox"/> | Cracks <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/> | Weld <input type="checkbox"/> | Part Incorrect <input type="checkbox"/> | Handling/Pre <input type="checkbox"/> | Training <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> | Material <input type="checkbox"/> | Use for Testing <input type="checkbox"/> | Cuffs <input type="checkbox"/> | Contamination <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | Part Moved <input type="checkbox"/> | Internal Transport <input type="checkbox"/> | Poor Information <input type="checkbox"/> | Crushing <input type="checkbox"/> | Countersink <input type="checkbox"/> | Off-set <input type="checkbox"/> | Drawing <input type="checkbox"/> | Tribal Knowledge <input type="checkbox"/> | Rushing <input type="checkbox"/> | Heat Treat <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Finish <input type="checkbox"/> | LOA <input type="checkbox"/> | Product Improvement <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Misread <input type="checkbox"/> | Substation <input type="checkbox"/> | Process Improvement <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/> | Drill Holes <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> | Turning Sequence <input type="checkbox"/> | Past Expiry Date <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> | OTHER : _____ |  |  |  |  |
| Misidentified <input type="checkbox"/>                       | Past Due <input type="checkbox"/>           |                                                                                                                                                                                    |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |                                 |                                   |                                                                                                                    |                                 |                                        |                                             |                                   |                                       |                                                |                                    |                                |                                               |                                        |                                   |                                 |                                               |                               |                                         |                                       |                                   |                                                 |                                                            |                                             |                                            |                                   |                                          |                                |                                        |                                          |                                     |                                             |                                           |                                   |                                      |                                  |                                  |                                           |                                  |                                     |                                        |                                     |                                 |                              |                                              |                                             |                                                          |                                       |                                  |                                     |                                              |                                        |                                      |                                                |                                           |                                           |                                                |               |  |  |  |  |

Work Order ID 140899

\*140899\*

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January 22, 2016 1:47:50 PM

Item ID: 646.4001 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: AS350 Cable Cutter System  
 Start Date: 1/22/2016 Start Qty: 1.00 \*1\* Cust Item ID:  
 Required Date: 2/15/2016 Req'd Qty: 1.00 \*1\* Customer:  
 Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start \*NR1\*  
 QC: Date: SPC (Y/N): Date: Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description                           | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|----------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 130                            | Packaging                                          | 0.00                 |         |        |              |               |               |                  |                |
| *130*                          |                                                    |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo                                               | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      | Identify and pack for shipping as per PPP 646.4001 |                      |         |        |              |               |               |                  |                |
|                                | Location: 101                                      |                      |         |        |              |               |               |                  |                |
| 140                            | QC21- Final Inspection - Work Order Release        | 0.00                 |         |        |              |               |               |                  |                |
| *140*                          |                                                    |                      |         |        |              |               |               |                  |                |
| QC                             | Memo                                               | 0.00                 |         |        |              |               |               |                  |                |
| Quality Control                |                                                    |                      |         |        |              |               |               |                  |                |

20160216

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                                                     |  |
|--------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |  | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |  | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>             Skid-tube <input type="checkbox"/><br/>             Machining <input type="checkbox"/><br/>             Thermoforming <input type="checkbox"/><br/>             Large Fab <input type="checkbox"/> </div> <div>             Cross tube <input type="checkbox"/><br/>             Small Fab <input type="checkbox"/><br/>             Finishing <input type="checkbox"/><br/>             Composite <input type="checkbox"/> </div> <div>             Water Jet <input type="checkbox"/><br/>             Prod. Eng. Coord. <input type="checkbox"/><br/>             Rec/Store/Packaging <input type="checkbox"/><br/>             Supplier <input type="checkbox"/> </div> <div>             Engineering <input type="checkbox"/><br/>             Quality <input type="checkbox"/><br/>             Other <input type="checkbox"/> </div> </div> |  |  |  |                                                                                                                                                     |  |
| Date :                                                       |  | Step #:                                                                                                                                                                            |  | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | MRB (QSI042) Approval<br><br><br>Completed By<br><br><br>Lead hand / Supervisor<br>Approval Verification<br><br><br>QC / QA Coordinator<br>Approval |  |
| Description Work Order Deviation                             |  |                                                                                                                                                                                    |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                                                                                                                                                     |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                                                                                                                                     |  |

| Root Cause         |                          |                       | FAULT CATEGORY           |                        |                          |                                   |                          |                       |                          |                      |
|--------------------|--------------------------|-----------------------|--------------------------|------------------------|--------------------------|-----------------------------------|--------------------------|-----------------------|--------------------------|----------------------|
| Environment        | <input type="checkbox"/> | No Re-verification    | <input type="checkbox"/> | Pressure/Forced        | <input type="checkbox"/> | Temperature/Cure                  | <input type="checkbox"/> | Power Loss/Surge      | <input type="checkbox"/> | Positioned Wrong     |
| Design             | <input type="checkbox"/> | Operator              | <input type="checkbox"/> | Bending                | <input type="checkbox"/> | Set-up                            | <input type="checkbox"/> | Folio/Program         | <input type="checkbox"/> | Outside Dimensions   |
| Doc/Data           | <input type="checkbox"/> | Offset/Setup          | <input type="checkbox"/> | Centre Not Concentric  | <input type="checkbox"/> | BOM/Route                         | <input type="checkbox"/> | Grain                 | <input type="checkbox"/> | Over/Under tolerance |
| Equip/Tooling      | <input type="checkbox"/> | Supplier              | <input type="checkbox"/> | Cracks                 | <input type="checkbox"/> | Broken/Damage/Defect              | <input type="checkbox"/> | Weld                  | <input type="checkbox"/> | Part Incorrect       |
| Handling/Pre       | <input type="checkbox"/> | Training              | <input type="checkbox"/> | Crimp/Kink/Ripple/Wave | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> | Wrong Stock Pulled    | <input type="checkbox"/> | Part Lost/Missing    |
| Material           | <input type="checkbox"/> | Use for Testing       | <input type="checkbox"/> | Cuffs                  | <input type="checkbox"/> | Contamination                     | <input type="checkbox"/> | Out of Sequence       | <input type="checkbox"/> | Part Moved           |
| Internal Transport | <input type="checkbox"/> | Poor Information      | <input type="checkbox"/> | Crushing               | <input type="checkbox"/> | Countersink                       | <input type="checkbox"/> | Off-set               | <input type="checkbox"/> | Drawing              |
| Tribal Knowledge   | <input type="checkbox"/> | Rushing               | <input type="checkbox"/> | Heat Treat             | <input type="checkbox"/> | Cut Too Short                     | <input type="checkbox"/> | Mislabeled            | <input type="checkbox"/> | Finish               |
| LOA                | <input type="checkbox"/> | Product Improvement   | <input type="checkbox"/> | Wave/Twist in Tube     | <input type="checkbox"/> | Instructions Incomplete/Unclear   | <input type="checkbox"/> | Fit/Function          | <input type="checkbox"/> | Misread              |
| Substation         | <input type="checkbox"/> | Process Improvement   | <input type="checkbox"/> | Marks/Chatter          | <input type="checkbox"/> | Drill Holes                       | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> | Turning Sequence     |
| Past Expiry Date   | <input type="checkbox"/> | Manufacturing Process | OTHER : _____            |                        |                          |                                   |                          |                       |                          |                      |
| Misidentified      | <input type="checkbox"/> | Past Due              |                          |                        |                          |                                   |                          |                       |                          |                      |

# Picklist Print

January 22, 2016 1:47:54 PM

Page 1

Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

## Comments:

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM  
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP  
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

| Component Item ID/<br>Item Name                                | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty    | Qty<br>Issued | Date<br>Issued   | Status |
|----------------------------------------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|-----------------|---------------|------------------|--------|
| 646.3301<br><del>*646-3301*</del><br>Upper Cutter Assy<br>9-89 |                        | Manufactured  | No          |                     |                  |                 | Each               | 5.0000         |             | 1               |               | DAS<br>6<br>9-89 |        |
|                                                                |                        |               |             | <u>Location</u>     |                  |                 |                    | <u>Loc Qty</u> |             | <u>Loc Code</u> |               |                  |        |
|                                                                |                        |               |             | cck018              |                  |                 |                    | 5              |             |                 |               |                  |        |
|                                                                |                        |               |             | 136497              |                  |                 |                    | 2              |             |                 |               |                  |        |
|                                                                |                        |               |             | 140115              |                  |                 |                    | 3              |             |                 |               |                  |        |
| 646.3001<br><del>*646-3001*</del><br>Lower Cutter Assy<br>9-89 |                        | Manufactured  | No          |                     |                  |                 | Each               | 0.0000         |             | 1               |               | DAS<br>6<br>9-89 |        |
| 646.2910<br><del>*646-2910*</del><br>Deflector<br>9-89         |                        | Manufactured  | No          |                     |                  |                 | Each               | 3.0000         |             | 1               |               | DAS<br>6<br>9-89 |        |
|                                                                |                        |               |             | <u>Location</u>     |                  |                 |                    | <u>Loc Qty</u> |             | <u>Loc Code</u> |               |                  |        |
|                                                                |                        |               |             | CCK050              |                  |                 |                    | 3              |             |                 |               |                  |        |
|                                                                |                        |               |             | 136136              |                  |                 |                    | 3              |             |                 |               |                  |        |
| 646.3810<br><del>*646-3810*</del><br>Bracket<br>9-89           |                        | Manufactured  | No          |                     |                  |                 | Each               | 0.0000         |             | 2               |               | DAS<br>6<br>9-89 |        |
| 646.3510<br><del>*646-3510*</del><br>Strut<br>9-89             |                        | Manufactured  | No          |                     |                  |                 | Each               | 1.0000         |             | 1               |               | DAS<br>6<br>9-89 |        |
|                                                                |                        |               |             | <u>Location</u>     |                  |                 |                    | <u>Loc Qty</u> |             | <u>Loc Code</u> |               |                  |        |
|                                                                |                        |               |             | cck104              |                  |                 |                    | 1              |             |                 |               |                  |        |
|                                                                |                        |               |             | 136114              |                  |                 |                    | 1              |             |                 |               |                  |        |

JAN 26 2016

# Picklist Print

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Page 2

Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

646.3511

Manufactured No

Each 0.0000

\*\*

1  
140125

9-89

FEB 05 2016

\*646 3511\*

Strut

647.0112

Manufactured No

Each 65.0000

\*\*

2

DAS 27

6 9-89

9-89

\*647 0112\*

Strut Bracket

Location

Loc Qty

Loc Code

CCK107

65

M130388

65

Each

10.0000

\*\*

2

2

647.7703

Manufactured No

\*647 7703\*

Strut Assembly

Location

Loc Qty

Loc Code

CCK114

10

139295

10

Each

1,333.000

\*\*

2

138

NAS1149F0332P

Purchased

No

\*NAS1149F0332P\*

Washer

Location

Loc Qty

Loc Code

GA

458

m133709

458

ST262

875

m133709

75

m133938

800

9

129

DAS 27

6 9-89

9-89

DAS 27

6 9-89

9-89

JAN 26 2016

DAS 6 9-89

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Shop Packet Print

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# Picklist Print

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Page 3

Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

2,836.000

61

~~\*MS21042L3\*~~  
Nut  
9-89

\*\*

DAS  
6  
9-89  
27  
9-89

Location

Loc Qty

Loc Code

CCK007

2000

m134039

2000

FP001

163

m133790

163

GA

195

m133790

195

ST304

478

m133790

478

61  
1

646.3110

Manufactured

No

Each

3.0000

~~\*646-3110\*~~  
Channel  
9-89

\*\*

Location

Loc Qty

Loc Code

cck020

3

136492

3

Each

10.0000

1

DAS  
6  
9-89  
27  
9-89

646.3710

Manufactured

No

~~\*646-3710\*~~  
Doubler  
9-89

\*\*

Location

Loc Qty

Loc Code

CCK002

10

127550

10

Each

5.0000

1

DAS  
6  
9-89  
27  
9-89

646.3210

Manufactured

No

~~\*646-3210\*~~  
Support  
9-89

\*\*

Location

Loc Qty

Loc Code

cck020

5

136217

5

1

DAS  
6  
9-89  
27  
9-89

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

646.3713

Manufactured No

Each

13.0000

1

~~\*646 3713\*~~ DAS  
9  
9-89  
Gusset

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

cck105

13

120631

1

138216

12

Each

236.0000

5

MS24694-S51

Purchased No

~~\*MS24694-S51\*~~ DAS  
9  
9-89  
Screw

\*\*

Location

Loc Qty

Loc Code

ST284

236

m130928

36

m133990

200

Each

37.0000

1

AN3-13A

Purchased No

~~\*AN3-13A\*~~ DAS  
9  
9-89  
Bolt

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

14

m131305

14

DAS  
6  
9-89

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Page 5

Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

**\*140899\***

**\*646 4001\***

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A

Purchased

No

Each

342.0000

10

DAS

6

9-89

**\*AN3-4A\***

Bolt

DAS  
9-89

Location

Loc Qty

Loc Code

over003

250

m133990

250

ST350

92

m129682

10

m133694

82

CR3213-5-3

Purchased

No

Each

116.0000

14

DAS

6

9-89

**\*CR3213-5-3\***

Cherry Rivet

DAS  
9-89

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

MS20470AD5-5.5

Purchased

No

Each

87.0000

8

DAS

6

9-89

**\*MS20470AD5-5.5\***

Rivet

DAS  
9-89

Location

Loc Qty

Loc Code

ST309

87

123425

87

Each

21.0000

1

646.3711

Manufactured

No

**\*646-3711\***

Clip

DAS  
9-89

Location

Loc Qty

Loc Code

cck105

21

120626

21

DAS  
6  
9-89  
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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

**\*140899\***

**\*646 4001\***

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

Each

11.0000

1

~~\*646-3712\*~~

Clip

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

cck105

11

101119

1

120630

10

646.3811

Manufactured No

Each

7.0000

1

~~\*646-3811\*~~

Radius Block

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

CKK106

7

122938

7

AN3-6A

Purchased No

Each

229.0000

2

~~\*AN3-6A\*~~

Bolt

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

over003

225

M133561

100

M133932

125

ST306

4

M131305

4

MS24694-S55

Purchased No

Each

130.0000

3

~~\*MS24694-S55\*~~

Screw

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

ST283

130

m132803

47

m133988

83

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

646.3610

Manufactured No

Each 0.0000

~~\*646-3610\*~~

Filler

646.3714

Manufactured No

Each 3.0000

~~\*646-3714\*~~

Gusset

Location

Loc Qty

Loc Code

cck105

3

120632

3

Each 968.0000

MS20470AD5-6

Purchased

No

~~\*MS20470AD5-6\*~~

RIVET

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

78

105433

78

Each 1.0000

646.3812

Manufactured No

~~\*646-3812\*~~

Gusset Bracket

Location

Loc Qty

Loc Code

CCK106

1

138194

1

Each 271.0000

AN3-3A

Purchased

No

~~\*AN3-3A\*~~

Bolt

Location

Loc Qty

Loc Code

ST350

271

m131624

101

m133833

70

m134034

100

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

Each 6.0000 1

~~\*646.3813\*~~

Strut Bracket

\*\*

Location

Loc Qty

Loc Code

CCK106

6

127453

1

138267

5

Each

509.0000

3

MS20470AD5-7

Purchased No

~~\*MS20470AD5-7\*~~

Rivet

\*\*

Location

Loc Qty

Loc Code

ST309

509

123425

509

Each

143.0000

18

MS21047-3

Purchased No

~~\*MS21047-3\*~~

Nut Plate

\*\*

Location

Loc Qty

Loc Code

over005

100

m133938

100

ST301

43

m133790

43

Each

388.0000

36

CCR264SS3-02

Purchased No

~~\*CCR264SS3-02\*~~

Rivet, Cherry

\*\*

Location

Loc Qty

Loc Code

ST321

388

M133790

188

M134023

200

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

**\*140899\***

**\*646 4001\***

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A

Purchased

No

Each

104.0000

2

**\*AN3-5A\*** DAS 9-89  
Bolt

**\*\***

**DAS**  
6 27  
9-89 9-89

Location

Loc Qty

Loc Code

FP001

24

m133686

24

ST350

80

m133686

80

646.3715

Manufactured

No

Each

19.0000

2

**\*646-3715\*** DAS 9-89  
Strut Doubler

**\*\***

**DAS**  
6 27  
9-89 9-89

Location

Loc Qty

Loc Code

cck105

19

139892

19

MS27039-1-12

Purchased

No

Each

191.0000

6

**\*MS27039-1-12\*** DAS 9-89  
Screw

**\*\***

**DAS**  
6 27  
9-89 9-89

Location

Loc Qty

Loc Code

over006

100

m133988

100

ST280

91

m133483

91

646.3716

Manufactured

No

Each

7.0000

1

**\*646-3716\*** DAS 9-89  
Gauge Bracket

**\*\***

**DAS**  
6 27  
9-89 9-89

Location

Loc Qty

Loc Code

cck105

7

136410

7

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

**\*140899\***  
**\*646 4001\***

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

Each

1,059.000

2

~~\*MS20426AD5-7\*~~  
RIVET

\*\*

DAS 6 9-89

Location

Loc Qty

Loc Code

ST311

1059

M132767

16

M133922

1043

2

MS24694-S54

Purchased

No

Each

58.0000

2

~~\*MS24694-S54\*~~  
SCREW

\*\*

DAS 6 9-89

Location

Loc Qty

Loc Code

ST284

58

m133134

58

Each

375.0000

4

MS27039-1-21

Purchased

No

~~\*MS27039-1-21\*~~  
Screw

\*\*

DAS 6 9-89

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

134

m127904

134

Each

172.0000

2

MS27039-1-20

Purchased

No

~~\*MS27039-1-20\*~~  
Screw

\*\*

DAS 6 9-89

Location

Loc Qty

Loc Code

ST280

172

124326

172

2

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

Each

204.0000

22

DAS

6

9-89

BAS

9-89

~~\*MS27039-1-19\*~~

Screw

?

9-89

Location

Loc Qty

Loc Code

over006

100

m133932

100

ST280

104

m133134

4

m133938

100

646.3717

Manufactured

No

Each

2.0000

1

DAS

6

9-89

BAS

27

9-89

~~\*646 3717\*~~

Doubler

Location

Loc Qty

Loc Code

cck105

2

120633

2

Each

13.0000

2

646.3718

Manufactured

No

\*\*

DAS

6

9-89

BAS

27

9-89

~~\*646 3718\*~~

Custom Washer

Location

Loc Qty

Loc Code

cck105

13

136223

13

Each

19.0000

2

646.3719

Manufactured

No

\*\*

DAS

6

9-89

BAS

27

9-89

~~\*646 3719\*~~

Doubler

Location

Loc Qty

Loc Code

cck105

19

139893

19

2

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

Each

148.0000

2

\*MS27039-1-10\*

SCREW

DAS  
9  
9-89

\*\*

DAS  
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

57

m132677

57

2

AN3-11A

Purchased

No

Each

195.0000

10

\*AN3-11A\*

Bolt

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

over003

100

m133992

100

ST349

95

m133561

95

10

600.0990

Purchased

No

Each

26.0000

1

\*6000990\*

Magnabond 6398 Part A

DAS  
9  
9-89

\*\*

DAS  
9-89

Location

Loc Qty

Loc Code

CA2

12

M133800

12

PKG

14

M133938

12

M131589

2

2/11/2016

1

DAS  
6  
9-89

20P  
4/15/16



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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991

Purchased

No

Each

26.0000

1

~~\*600 0991\*~~ **DAS 9 9-89**  
MAGNOBOND 6398 PART B

\*\*

**DAS 6 9-89**

**DAS 6 9-89**

Location

Loc Qty

Loc Code

CA2

12

m133800

12

PKG

14

m133938

12

m131589

2

2/11/2016

Each

25.0000

1

600.1012

Purchased

No

~~\*600 1012\*~~ **DAS 9 9-89**  
Sealant PR1425B2 (#654 sem)

\*\*

**DAS 6 9-89**

**DAS 6 9-89**

Location

Loc Qty

Loc Code

cck017

24

m133800

8

m133938

8

m133992

8

cck018

1

m131364

1

10/30/2015

f

501.0000

8

600.0129

Purchased

No

~~\*600 0129\*~~ **DAS 9 9-89**  
VHB TAPE 75935A651

\*\*

**DAS 6 9-89**

**DAS 6 9-89**

Location

Loc Qty

Loc Code

CCK095

501

m127920

301

m131311

200

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

600.1013

Purchased

No

Each

850.0000

5

~~\*600-1013\*~~

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

CCK095

850

m131145

850

6/15/2016

5

Each

32.0000

4

646.3910

Manufactured

No

~~\*646-3910\*~~

Shim

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

CCK106

32

136478

32

2

Each

61.0000

1

646.3911

Manufactured

No

~~\*646-3911\*~~

Shim

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

cck104

17

126229

17

CCK106

44

126059

44

1

Each

16.0000

4

646.3912

Manufactured

No

~~\*646-3912\*~~

Shim

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

Location

Loc Qty

Loc Code

cck023a

10

124501

10

CCK106

6

123143

6

4

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

646.3913

Manufactured No

Each

100.0000

1

~~\*646 3913\*~~

Shim

DAS  
9  
9-89

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

19

124108

19

Each

87.0000

2

AN3-12A

Purchased

No

~~\*AN3-12A\*~~

Bolt

DAS  
9  
9-89

Location

Loc Qty

Loc Code

GA

2

m129682

2

ST349

85

m133064

16

m133234

69

Each

318.0000

24

MS27039-1-16

Purchased

No

~~\*MS27039-1-16\*~~

Screw

DAS  
9  
9-89

Location

Loc Qty

Loc Code

ST280

318

m131317

18

mm134023

300

Each

13.0000

2

650.9201

Manufactured

No

~~\*650 9201\*~~

Eyelet Bracket Assembly

DAS  
9  
9-89

Location

Loc Qty

Loc Code

cck127

13

136606

13

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Work Order ID: 140899

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

\*140899\*

\*646 4001\*

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

AN44-5A

Purchased

No

Each

26.0000

2

~~\*AN44-5A\*~~

Eyebolt

DAS  
9  
9.89

\*\*

DAS  
6  
9.89

Location

Loc Qty

Loc Code

ST339

26

m133134

2

m133790

12

m133990

12

AN665-34R

Purchased

No

Each

48.0000

2

~~\*AN665-34R\*~~

Clevis

DAS  
9  
9.89

\*\*

DAS  
6  
9.89

Location

Loc Qty

Loc Code

ST330

48

M133523

28

M134029

10

st330

10

AN4C7A

Purchased

No

Each

106.0000

2

~~\*AN4C7A\*~~

BOLT

DAS  
9  
9.89

\*\*

DAS  
27  
9.89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

16

m133363

16

ST345

70

m133790

20

m133990

50

DAS  
6  
9.89

# Picklist Print

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Work Order ID: 140899

**\*140899\***

Parent Item: 646.4001

**\*646 4001\***

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P

Purchased

No

Each

1,618.000

4

~~\*NAS1149F0432P\*~~

WASHER

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

DAS  
27  
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M133990

1000

ST262

493

M133938

493

st268

125

M132677

125

Each

2,182.000

2

MS2104214

Purchased

No

~~\*MS2104214\*~~

Locknut

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

DAS  
27  
9-89

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST303

2018

m133769

2018

ST305

97

m130922

97

Each

79.0000

2

AN316C4R

Purchased

No

~~\*AN316C4R\*~~

NUT

DAS  
9  
9-89

\*\*

DAS  
6  
9-89

DAS  
27  
9-89

Location

Loc Qty

Loc Code

ST331

79

m133234

43

m133523

36

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Work Order ID: 140899

**\*140899\***

Parent Item: 646.4001

**\*646 4001\***

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/22/2016

Required Date: 2/15/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

Each 18.0000

~~\*MS21042-3\*~~ 

\*\*

2133710

Nut / use MS21042L3

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS27039-08-13 Purchased No

Each 318.0000

~~\*MS27039-08-13\*~~ 

\*\*

2

Screw

Location

Loc Qty

Loc Code

ST278

318

124326

318

MS21042-08 MS21042L08 Purchased No

Each 33.0000

~~\*MS21042-08\*~~ 

\*\*

2133922

USE MS21042L08

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

NAS1149FN832P Purchased No

Each 3,821.000

~~\*NAS1149FN832P\*~~ 

\*\*

4

Washer

Location

Loc Qty

Loc Code

GA

2231

M133316

16

M133769

2215

ST262

1590

M133709

1590

4

January 22, 2016 1:47:59 PM

Shop Packet Print

Page 18

January 22, 2016 1:47:59 PM

**\*140899\***

**\*646 4001\***

**Required Qty: 1.00**

5

**\*\***

**Loc Code**

**DAS**  
**6**  
**9-89**

5

1

**\*\***

see attach Email

16.02-10

~~NAS 1149F0363P~~

**DAS**  
**9**  
**9-89**

24 2

Bate h. mp24555

5m/

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DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT  
WRITTEN PERMISSION OF APICAL INDUSTRIES DART AEROSPACE IS PROHIBITED.

# NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 INSTALL F/N 14 WITH F/N 52 & 53.
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR: MCMASTER-CARR P/N 75935A651.
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.  
VENDOR: R.S. HUGHES P/N 021200-24216.
- 5 REUSE FASTENERS FROM F/N 1.
- 6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- 8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE  
SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78  
SCREW IN PLACE OF F/N 17 SCREW.
- 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY  
REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 &  
F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

20160122  
SA 140899.

|      |      |      |      |          |                       |                 |        |             |      |       |
|------|------|------|------|----------|-----------------------|-----------------|--------|-------------|------|-------|
| 5    | 5    | 5    | 78   | 601.3875 | SCREW                 | MS21042-28      |        |             |      |       |
| 1    | 1    | 1    | 77   | 646.9410 | SHIM                  | AN3-12A         |        |             |      |       |
|      | 4    | 4    | 76   | 601.2764 | WASHER                | NAS1149W833P    |        |             |      |       |
|      | 2    | 2    | 75   | 601.2973 | LOCKNUT               | MS21042-28      |        |             |      |       |
|      | 2    | 2    | 74   | 601.2988 | SCREW                 | MS27039-0813    |        |             |      |       |
|      | 2    | 2    | 73   | 601.2943 | LOCKNUT               | MS21042-3       |        |             |      |       |
|      | 2    | 2    | 72   | 601.3128 | NUT                   | AN316C4R        |        |             |      |       |
|      | 2    | 2    | 71   | 601.3209 | LOCKNUT               | MS21042-4       |        |             |      |       |
|      | 4    | 4    | 70   | 601.2638 | WASHER                | NAS1149FO432P   |        |             |      |       |
|      | 2    | 2    | 69   | 601.2669 | BOLT                  | AN4C7A          |        |             |      |       |
|      | 2    | 2    | 68   | 601.3119 | CLEVIS                | AN665-34R       |        |             |      |       |
|      | 2    | 2    | 67   | 601.3121 | EYE BOLT              | AN44-5A         |        |             |      |       |
|      | 2    | 2    | 66   | 650.9201 | EYE BRACKET ASSY      |                 |        |             |      |       |
| REF  | REF  | REF  | 65   | 647.5701 | GPS MOUNT KIT         | AN3-12A         |        |             |      |       |
|      |      | 2    | 64   | 601.3151 | WASHER                | NAS1149FO363P   |        |             |      |       |
|      |      | 2    | 63   | 601.2911 | SCREW                 | MS24694553      |        |             |      |       |
|      | 24   | 24   | 62   | 601.2637 | SCREW                 | MS27039-1-16    |        |             |      |       |
| 2    | 2    | 2    | 61   | 601.2763 | BOLT                  | AN3-12A         |        |             |      |       |
|      | 1    | 1    | 60   | 646.3913 | SHIM                  |                 |        |             |      |       |
|      | 4    | 4    | 59   | 646.3912 | SHIM                  |                 |        |             |      |       |
|      | 1    | 1    | 58   | 646.3911 | SHIM                  |                 |        |             |      |       |
|      | 4    | 4    | 57   | 646.3910 | SHIM                  |                 |        |             |      |       |
|      | 5    | 5    | 56   | 600.1013 | PRIMER                |                 |        |             |      |       |
|      | 8 FT | 8 FT | 55   | 600.0129 | VHB TAPE              |                 |        |             |      |       |
|      | 1    | 1    | 54   | 600.1012 | SEALANT               | PP-1425 CLASS B |        |             |      |       |
|      | 1    | 1    | 53   | 600.0991 | MAGNOBOND 6398 PART B | AN3-12A         |        |             |      |       |
|      | 1    | 1    | 52   | 600.0990 | MAGNOBOND 6398 PART A | AN3-12A         |        |             |      |       |
| 6    | 10   | 10   | 51   | 601.2826 | BOLT                  | AN3-12A         |        |             |      |       |
|      |      | 2    | 50   | 646.3814 | WIPER BRACKET         |                 |        |             |      |       |
|      |      | 2    | 49   | 601.2910 | SCREW                 | MS27039-1-18    |        |             |      |       |
| 2    |      | 2    | 48   | 601.1365 | SCREW                 | MS27039-1-10    |        |             |      |       |
| 2    |      | 2    | 47   | 646.3719 | DOUBLER               |                 |        |             |      |       |
|      | 2    | 2    | 46   | 646.3718 | CUSTOM WASHER         |                 |        |             |      |       |
| 1    |      | 1    | 45   | 646.3717 | DOUBLER               |                 |        |             |      |       |
|      | 22   | 2    | 44   | 601.1948 | SCREW                 | MS27039-1-19    |        |             |      |       |
|      | 2    | 2    | 43   | 601.1952 | SCREW                 | MS27039-1-20    |        |             |      |       |
|      | 4    | 4    | 42   | 601.1956 | SCREW                 | MS27039-1-21    |        |             |      |       |
| 4006 | 4005 | 4004 | 4003 | 4002     | 4001                  | FIND #          | PART # | DESCRIPTION | MATL | SPEC. |

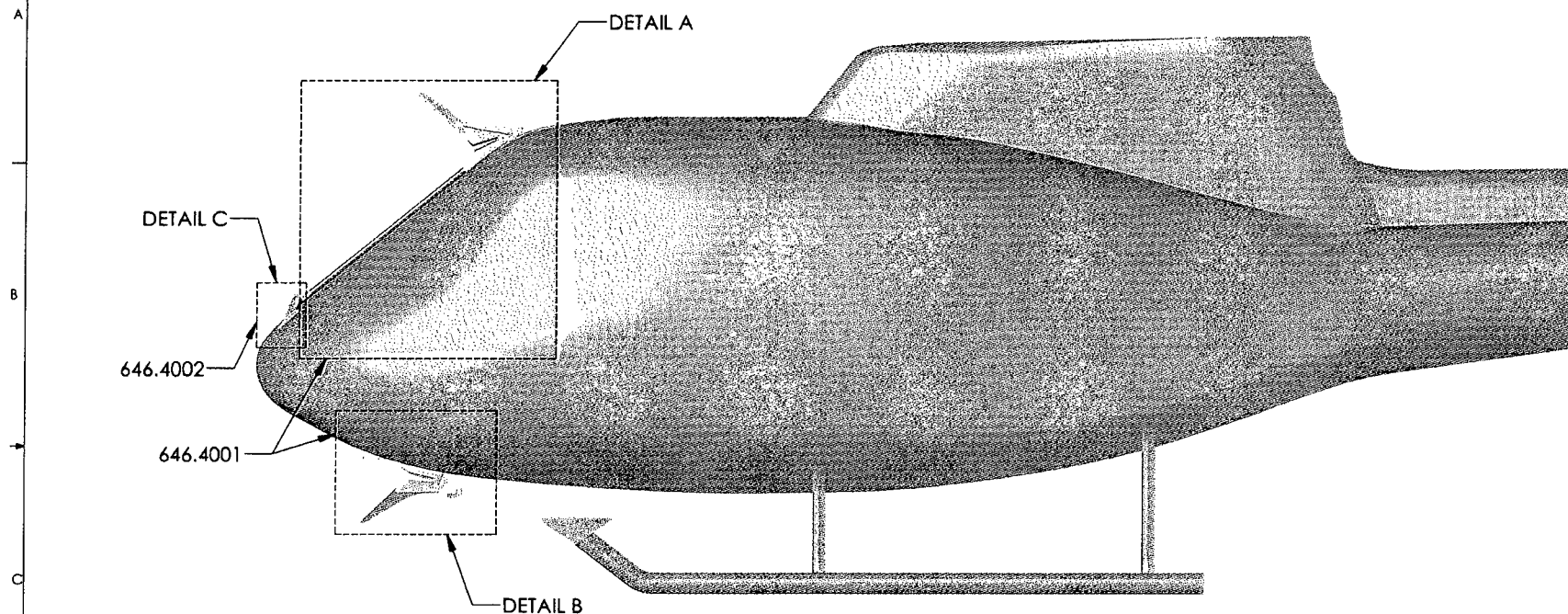
| REV. | DESCRIPTION                                   | DATE       | APPROVED |
|------|-----------------------------------------------|------------|----------|
| A    | INCORPORATED ECHS 02195, 02351, 02719 & 02745 | 02/06/2010 | P. BRAVO |
| B    | INCORPORATED ECHS 03044, 03079 & 04731        | 11/04/2014 | P. BRAVO |
| C    | INCORPORATED ECHS 05098                       | 09/09/2015 | P. BRAVO |

|      |      |      |      |      |          |                |                |                                            |               |       |
|------|------|------|------|------|----------|----------------|----------------|--------------------------------------------|---------------|-------|
|      |      | 2    | 2    | 41   | 601.2829 | SCREW          | MS24694554     |                                            |               |       |
|      |      | 2    | 2    | 40   | 601.2831 | RIVET          | MS20426ADS-7   |                                            |               |       |
|      |      | 1    | 1    | 39   | 646.3716 | GAUGE BRACKET  |                |                                            |               |       |
|      |      | 6    | 6    | 38   | 601.1953 | SCREW          | MS27039-1-12   |                                            |               |       |
|      | 2    | 2    | 2    | 37   | 646.3715 | STRUT DOUBLER  |                |                                            |               |       |
|      | 2    | 2    | 2    | 36   | 601.2824 | BOLT           | AN3-5A         |                                            |               |       |
| 12   | 36   |      | 36   | 35   | 601.2277 | RIVET          | CCR26453-302   |                                            |               |       |
| 6    | 18   |      | 18   | 34   | 600.0795 | NUTPLATE       | MS21047-3      |                                            |               |       |
| 3    | 3    |      | 3    | 33   | 601.2565 | RIVET          | MS20470ADS-7   |                                            |               |       |
| 1    | 1    |      | 1    | 32   | 646.3813 | STRUT BRACKET  |                |                                            |               |       |
| 4    | 4    |      | 4    | 31   | 601.2822 | BOLT           | AN3-3A         |                                            |               |       |
| 2    | 2    |      | 2    | 30   | 646.3812 | GUSSET BRACKET |                |                                            |               |       |
| 8    | 8    |      | 8    | 29   | 601.2564 | RIVET          | MS20470ADS-6   |                                            |               |       |
| 1    | 1    |      | 1    | 28   | 646.3714 | GUSSET         |                |                                            |               |       |
|      | 1    | 1    | 1    | 27   | 646.3610 | FILLER         |                |                                            |               |       |
|      | 3    | 3    | 3    | 26   | 601.2830 | SCREW          | MS24694555     |                                            |               |       |
|      | 2    | 2    | 2    | 25   | 601.2825 | BOLT           | AN3-6A         |                                            |               |       |
|      | 1    | 1    | 1    | 24   | 646.3811 | RADIUS BLOCK   |                |                                            |               |       |
|      | 1    | 1    | 1    | 23   | 646.3712 | CLIP           |                |                                            |               |       |
|      | 1    | 1    | 1    | 22   | 646.3711 | CLIP           |                |                                            |               |       |
| 8    | 8    |      | 8    | 21   | 601.2832 | RIVET          | MS20470ADS-5.3 |                                            |               |       |
| 14   | 14   |      | 14   | 20   | 601.2020 | RIVET          | CR3213-5-3     |                                            |               |       |
| 4    | 6    | 4    | 6    | 19   | 601.2823 | BOLT           | AN3-4A         |                                            |               |       |
|      | 1    | 1    | 1    | 18   | 601.2827 | BOLT           | AN3-13A        |                                            |               |       |
|      | 5    | 5    | 5    | 17   | 601.2912 | SCREW          | MS24694551     |                                            |               |       |
| 1    | 1    |      | 1    | 16   | 646.3713 | GUSSET         |                |                                            |               |       |
| 1    |      |      | 1    | 15   | 646.3210 | SUPPORT        |                |                                            |               |       |
|      |      | 1    | 1    | 14   | 646.3710 | DOUBLER        |                |                                            |               |       |
|      | 1    | 1    | 1    | 13   | 646.3110 | CHANNEL        |                |                                            |               |       |
| 14   | 10   | 8    | 53   | 6    | 61       | 12             | 601.1624       | LOCKNUT                                    | MS21042L3     |       |
| 16   | 32   | 18   | 120  | 16   | 144      | 11             | 601.1607       | WASHER                                     | NAS1149FO333P |       |
|      |      |      |      |      | 10       |                | 646.3410       | LH WIPER DEFLECTOR                         |               |       |
|      |      |      |      | 1    |          | 9              | 646.3411       | RH WIPER DEFLECTOR                         |               |       |
|      |      | 2    |      | 2    | 8        |                | 647.7703       | STRUT ASSY                                 |               |       |
|      |      | 2    |      | 2    | 7        |                | 647.0112       | STRUT BRACKET                              |               |       |
|      | 1    | 1    |      | 1    | 6        |                | 646.3511       | STRUT                                      |               |       |
|      | 1    | 1    | 1    | 1    | 5        |                | 646.3510       | STRUT                                      |               |       |
| 2    |      | 2    |      | 2    | 4        |                | 646.3810       | BRACKET                                    |               |       |
|      |      |      | 1    | 1    | 3        |                | 646.2910       | DEFLECTOR                                  |               |       |
|      | 1    | 1    |      | 1    | 2        |                | 646.3001       | LOWER CUTTER ASSY                          |               |       |
|      |      |      | 1    | 1    | 1        |                | 646.3301       | UPPER CUTTER ASSY                          |               |       |
| X    |      |      |      |      |          |                | 646.4006       | LOWER CUTTER FIXED PROVISIONS              |               |       |
|      | X    |      |      |      |          |                | 646.4005       | LOWER CUTTER REMOVABLE PROVISIONS          |               |       |
|      |      | X    |      |      |          |                | 646.4004       | FIXED PROVISIONS KIT                       |               |       |
|      |      |      | X    |      |          |                | 646.4003       | CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS |               |       |
|      |      |      |      | X    |          |                | 646.4002       | AS350 WIPER DEFLECTOR KIT                  |               |       |
|      |      |      |      |      | X        |                | 646.4001       | AS350 CABLE CUTTERS KIT                    |               |       |
| 4006 | 4005 | 4004 | 4003 | 4002 | 4001     | FIND #         | PART #         | DESCRIPTION                                | MATL          | SPEC. |

|                                                                                                                                                |  |                                                                                                                                                                                                                                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| QTY                                                                                                                                            |  | PARTS LIST                                                                                                                                                                                                                                     |  |
| NEXT ASSY (S)                                                                                                                                  |  | ORIGINAL DATE: 08-27-08<br>DRAWN BY: S. HUFF<br>CHECKED BY: P. BRAVO<br>DRAWING APPROVAL: P. BRAVO<br>08/27/08<br>CONTRACT NO.                                                                                                                 |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACES DECIMALS ±.010<br>3 PLACES DECIMALS ±.005<br>ANGLES ±.5° |  | <b>DART</b> 3030 ENTERPRISE CT., SUITE A<br>VISTA, CA. 92081<br>(760)-724-5300<br>APICAL INDUSTRIES, INC.<br>0500 DART AEROSPACE<br><b>AS350 CABLE CUTTERS KIT</b><br>SEE PAGE CODE: 07M25<br>QWG. NO. 646.4000<br>SCALE: NONE<br>SHEET 1 OF 5 |  |

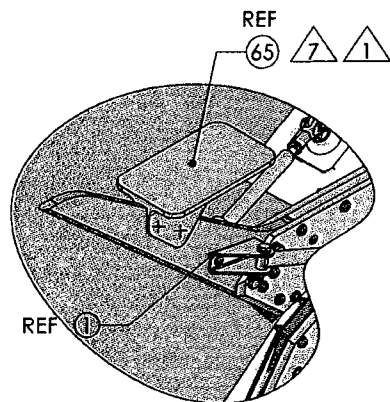


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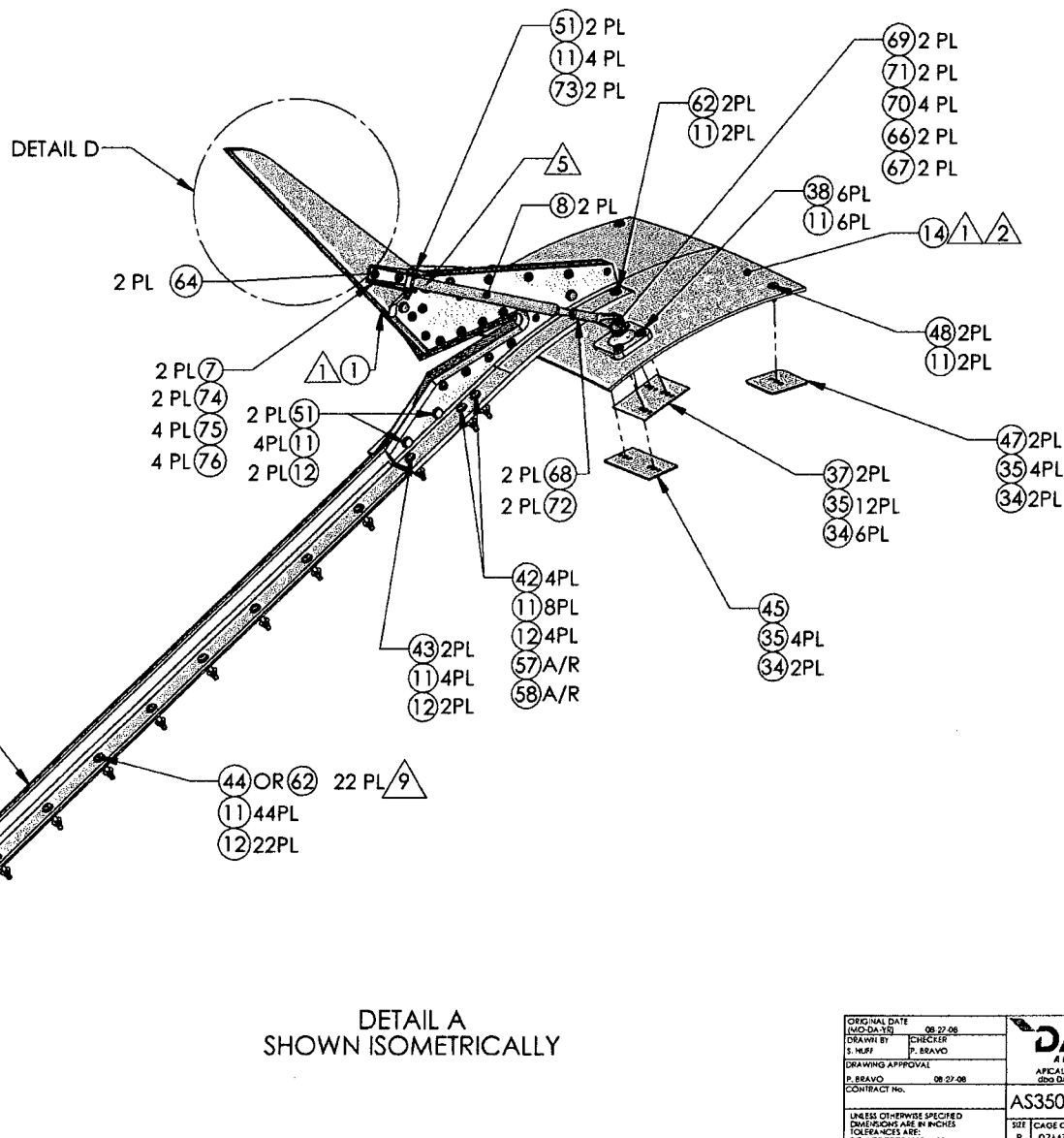


|                                                                                                                                              |                     |                                                                                                                                                                                                                                         |           |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| ORIGINAL DATE<br>(WO-DAY) 08-07-08                                                                                                           |                     |  <b>DART</b><br>AEROSPACE<br>3030 ENTERPRISE CT.,<br>SUITE A<br>VISTA, CA 92081<br>(760)-724-5300<br>APICAL INDUSTRIES, INC.<br>DBA DART AEROSPACE |           |
| DRAWN BY<br>S. HUP                                                                                                                           | CHECKER<br>P. BRAVO |                                                                                                                                                                                                                                         |           |
| DRAWING APPROVAL<br>P. BRAVO                                                                                                                 | 08-07-08            |                                                                                                                                                                                                                                         |           |
| CONFIDENTIAL                                                                                                                                 |                     |                                                                                                                                                                                                                                         |           |
| CONTRACT NO.                                                                                                                                 |                     | AS350 CABLE CUTTERS KIT                                                                                                                                                                                                                 |           |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS .005<br>3 PLACE DECIMALS .0005<br>ANGLES ± .5° |                     |                                                                                                                                                                                                                                         |           |
| SHEET<br>B                                                                                                                                   | CAGE CODE<br>07M26  | DWG. NO.<br>646.4000                                                                                                                                                                                                                    | REV.<br>C |
| SCALE NONE                                                                                                                                   |                     | SHEET 2 OF 5                                                                                                                                                                                                                            |           |

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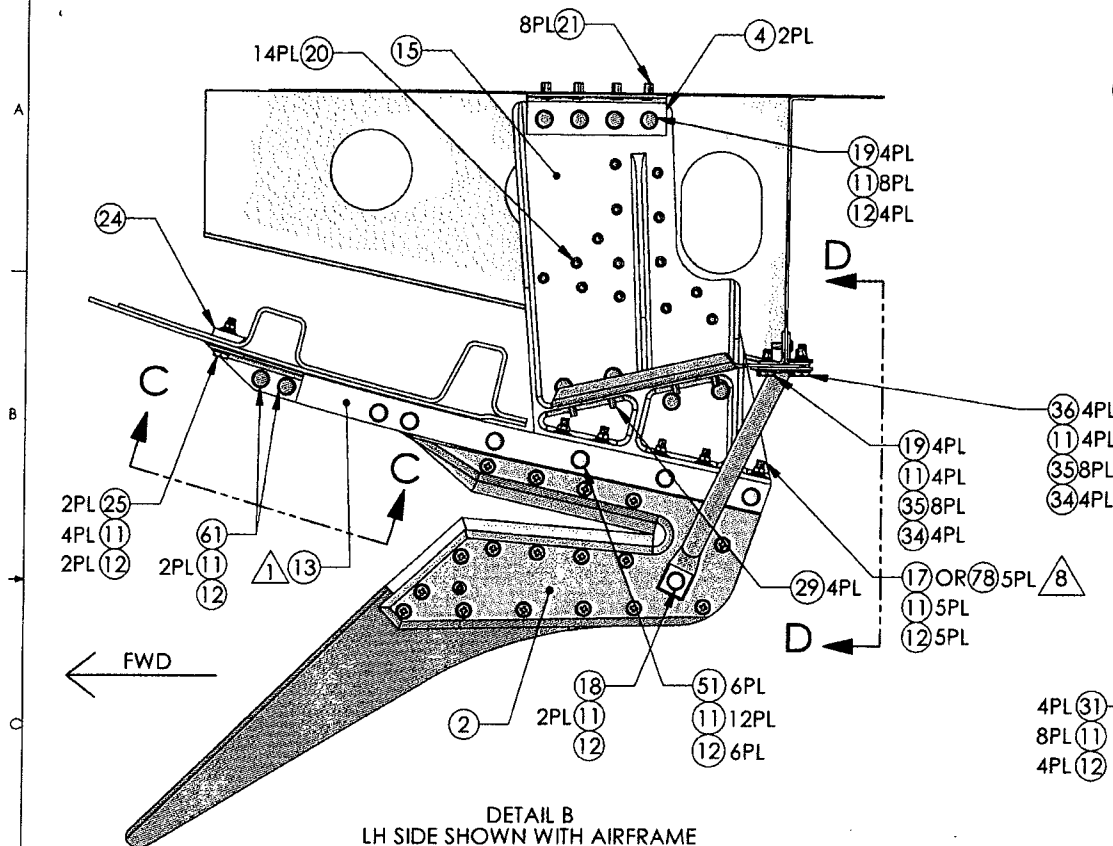
DETAIL D  
TYPICAL GPS MOUNT KIT INSTALLATION



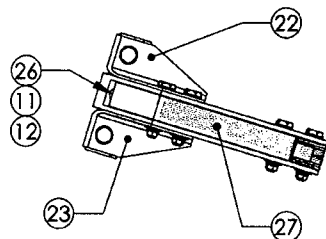
DETAIL A  
SHOWN ISOMETRICALLY

|                                                                                                                                             |           |                                                                                       |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| ORIGINAL DATE<br>(MM-DD-YY)                                                                                                                 | 08-27-08  |  | 3030 ENTERPRISE CT.<br>SUITE A<br>VISTA, CA. 92081<br>(760) 724-5300 |
| DRAWN BY<br>S. HURF                                                                                                                         | P. BRAVO  |                                                                                       |                                                                      |
| DRAWING APPROVAL<br>P. BRAVO                                                                                                                | 08-27-08  |                                                                                       |                                                                      |
| CONTRACT No.                                                                                                                                |           |                                                                                       |                                                                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±.01<br>3 PLACE DECIMALS ±.005<br>ANGLES ±.5° |           |                                                                                       |                                                                      |
| AS350 CABLE CUTTERS KIT                                                                                                                     |           |                                                                                       |                                                                      |
| SIZE                                                                                                                                        | CAGE CODE | DWG. NO.                                                                              | REV.                                                                 |
| B                                                                                                                                           | 07M26     | 646.4000                                                                              | C                                                                    |
| SCALE NONE                                                                                                                                  |           | SHEET 3 OF 5                                                                          |                                                                      |

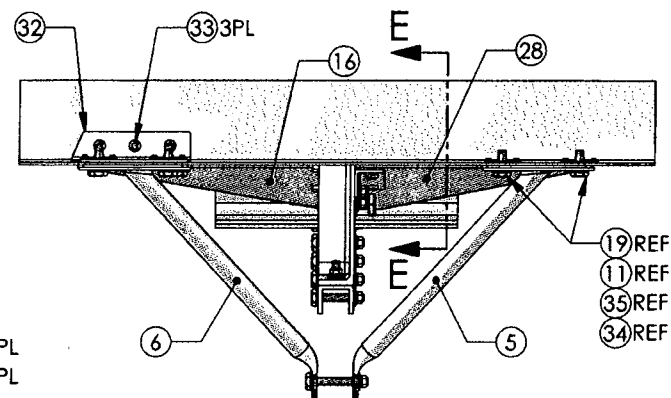
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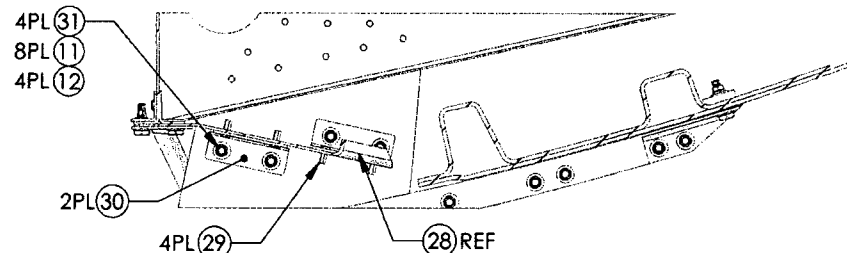
DETAIL B  
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



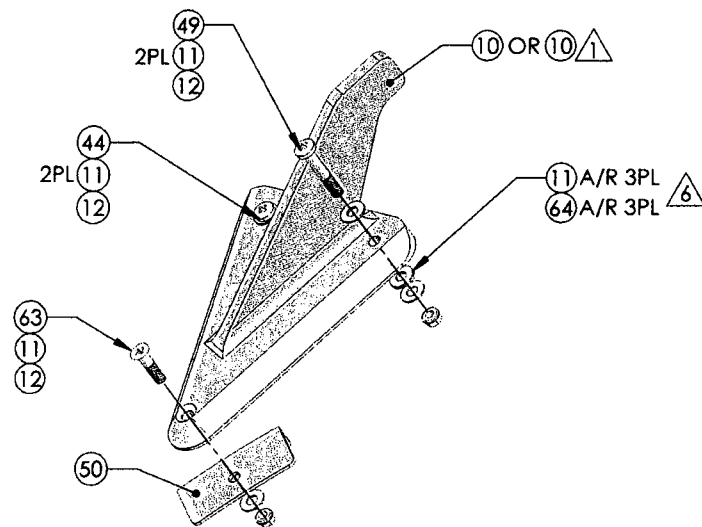
SECTION D-D  
CUTTER HIDDEN FOR CLARITY



SECTION E-E

|                                                                                                                                              |                                                                                                                                                                |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| ORIGINAL DATE<br>(M-D-Y): 08-27-08                                                                                                           |  <b>DART</b><br>AEROSPACE<br>ASAP INDUSTRIES, INC.<br>3030 DART AEROSPACE | 3030 ENTERPRISE CT<br>SUITE A<br>VISTA, CA 92081<br>(760)-724-5300 |
| DRAWN BY: S. HUFF<br>CHECKED BY: P. BRAVO                                                                                                    |                                                                                                                                                                |                                                                    |
| DRAWING APPROVAL:<br>P. BRAVO<br>08-27-08                                                                                                    |                                                                                                                                                                |                                                                    |
| CONTRACT NO.                                                                                                                                 |                                                                                                                                                                |                                                                    |
| <b>AS350 CABLE CUTTERS KIT</b>                                                                                                               |                                                                                                                                                                |                                                                    |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±0.10<br>3 PLACE DECIMALS ±0.05<br>ANGLES ± 5° |                                                                                                                                                                |                                                                    |
| SHEET                                                                                                                                        | CAGE CODE                                                                                                                                                      | DWG. NO.                                                           |
| B                                                                                                                                            | 07M26                                                                                                                                                          | 646.4000                                                           |
| SCALE: NONE                                                                                                                                  |                                                                                                                                                                | SHEET 4 OF 5                                                       |

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DETAIL C  
LH SHOWN EXPLODED  
RH OPPOSITE

|                                                                                                                                                     |                               |                                                                                                                                                                   |                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| ORIGINAL DATE<br>M/D/DA-YR<br>08-27-08                                                                                                              | DATE<br>M/D/DA-YR<br>08-27-08 | <br><b>DART</b><br>AEROSPACE<br>APICAL INDUSTRIES INC.<br>200 DART AEROSPACE | 3030 ENTERPRISE CT.,<br>SUITE A<br>VISTA, CA 92081<br>(760) 724-5300 |
| DRAWN BY<br>J. HUFF                                                                                                                                 | CHECKED BY<br>P. BRAYO        |                                                                                                                                                                   |                                                                      |
| DRAWING APPROVAL<br>P. BRAYO<br>08-27-08                                                                                                            |                               |                                                                                                                                                                   |                                                                      |
| CONTRACT NO.                                                                                                                                        |                               |                                                                                                                                                                   |                                                                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>1. 2 PLACE DECIMALS ±0.10<br>2. 3 PLACE DECIMALS ±0.05<br>ANGLES ± .5° |                               |                                                                                                                                                                   |                                                                      |
| <h1>AS350 CABLE CUTTERS KIT</h1>                                                                                                                    |                               |                                                                                                                                                                   |                                                                      |
| SHEET                                                                                                                                               | CAGE CODE                     | DWG. NO.                                                                                                                                                          | REV.                                                                 |
| 1                                                                                                                                                   | 07MA26                        | 646-0000                                                                                                                                                          | C                                                                    |
| SCALE NONE                                                                                                                                          |                               |                                                                                                                                                                   | SHEET 5 OF 5                                                         |

## David Duval

---

**From:** David Duval  
**Sent:** February-16-16 11:22 AM  
**To:** Shirley Hay; Mario Poulin  
**Subject:** FW: 646.9410 Shim

### DAVID DUVAL

*Production Engineering Coordinator*

---

**From:** David Duval  
**Sent:** February-03-16 1:58 PM  
**To:** Mario Poulin <mpoulin@dartaero.com>  
**Subject:** FW: 646.9410 Shim

Got it

### DAVID DUVAL

*Production Engineering Coordinator*

---

**From:** Mario Poulin  
**Sent:** January-07-16 2:02 PM  
**To:** David Duval <dduval@dartaero.com>  
**Subject:** FW: 646.9410 Shim

Fyi,

Not a show stopper for now, CCK350 (Shim)

Mario,

---

**From:** Marc Bellavance  
**Sent:** Thursday, January 07, 2016 1:40 PM  
**To:** Mario Poulin <mpoulin@dartaero.com>  
**Subject:** FW: 646.9410 Shim

Hey Mario,

Here's your answer. I'm thinking that if a customer is requiring a shim we can follow up with a no charge shim or advise that he fabricate his own.

Marc

---

**From:** Jacob Becker  
**Sent:** January-07-16 1:12 PM  
**To:** Marc Bellavance <mbellavance@dartaero.com>; Lisa Mansfield <lmansfield@dartaero.com>

**Cc:** Mario Poulin <[mpoulin@dartaero.com](mailto:mpoulin@dartaero.com)>; Sian Willems <[swillems@dartaero.com](mailto:swillems@dartaero.com)>

**Subject:** RE: 646.9410 Shim

It's not a show stopper. Currently we advise the customer that they need to shim it if OEM provisions are installed. I have just now included the shim in the kit.

Jacob

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**From:** Marc Bellavance

**Sent:** Thursday, January 07, 2016 8:59 AM

**To:** Lisa Mansfield <[lmansfield@dartaero.com](mailto:lmansfield@dartaero.com)>; Jacob Becker <[JBecker@dartaero.com](mailto:JBecker@dartaero.com)>

**Cc:** Mario Poulin <[mpoulin@dartaero.com](mailto:mpoulin@dartaero.com)>; Sian Willems <[swillems@dartaero.com](mailto:swillems@dartaero.com)>

**Subject:** 646.9410 Shim

Lisa/Jacob,

You guys have introduced this laminated aluminum shim as part of our AS350 CCK kits for use when installing in conjunction with OEM fixed provisions. Seems like we're having a hard time sourcing this part and/or with its manufacturing (cutting this on the waterjet to 0.50" wide is far from ideal). Is this something you guys have in stock or can acquire easily? Also, is this a show stopper for all orders in WIP and others about to ship?

Please advise.

Thanks,

Marc

REFERENCE ONLY

DAS 16-02-14  
9-89

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NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR: MCMMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.  
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

|      |      |     |          |                       |               |
|------|------|-----|----------|-----------------------|---------------|
| 5    | 5    | 78  | 601.3875 | SCREW                 |               |
| 1    | 1    | 77  | 646.9410 | SHIM                  |               |
|      | 4    | 76  | 601.2764 | WASHER                |               |
|      | 2    | 75  | 601.2973 | LOCKNUT               |               |
|      | 2    | 74  | 601.2988 | SCREW                 |               |
|      | 2    | 73  | 601.2943 | LOCKNUT               |               |
|      | 2    | 72  | 601.3128 | NUT                   |               |
|      | 2    | 71  | 601.3209 | LOCKNUT               |               |
|      | 4    | 70  | 601.2638 | WASHER                |               |
|      | 2    | 69  | 601.2669 | BOLT                  |               |
|      | 2    | 68  | 601.3119 | CLEVIS                |               |
|      | 2    | 67  | 601.3121 | EYE BOLT              |               |
|      | 2    | 66  | 601.3121 | EYE BRACKET ASSY      |               |
| REF  | REF  | REF | 65       | 647.5701              | GPS MOUNT KIT |
|      |      | 2   | 64       | 601.3151              | WASHER        |
|      |      | 63  | 601.2911 | SCREW                 |               |
|      | 24   | 62  | 601.2637 | SCREW                 |               |
| 2    | 2    | 61  | 601.2763 | BOLT                  |               |
|      | 1    | 60  | 646.3913 | SHIM                  |               |
|      | 4    | 59  | 646.3912 | SHIM                  |               |
|      | 1    | 58  | 646.3911 | SHIM                  |               |
|      | 4    | 57  | 601.3210 | SHIM                  |               |
|      | 5    | 56  | 600.1013 | PRIMER                |               |
| 8 FT | 8 FT | 55  | 600.1012 | VHB TAPE              |               |
| 1    | 1    | 54  | 600.1011 | SEALANT               |               |
|      | 1    | 53  | 600.0999 | MAGNABOND 6398 PART B |               |
|      | 1    | 52  | 600.0998 | MAGNABOND 6398 PART A |               |
| 6    | 10   | 51  | 601.2826 | BOLT                  |               |
|      | 2    | 50  | 646.3814 | WIPER BRACKET         |               |
|      | 2    | 49  | 601.2910 | SCREW                 |               |
|      | 2    | 48  | 601.1365 | SCREW                 |               |
|      | 2    | 47  | 646.3719 | DOUBLER               |               |
|      | 2    | 46  | 646.3718 | CUSTOM WASHER         |               |
|      | 1    | 45  | 646.3717 | DOUBLER               |               |
|      | 22   | 44  | 601.1948 | SCREW                 |               |
|      | 2    | 43  | 601.1952 | SCREW                 |               |
|      | 4    | 42  | 601.1956 | SCREW                 |               |

| REVISIONS |                                             |            |          |
|-----------|---------------------------------------------|------------|----------|
| REV.      | DESCRIPTION                                 | DATE       | APPROVED |
| A         | INCORPORATED ECH 6509, 02251, 02719 & 02745 | 01/08/2010 | P. BRAVO |
| B         | INCORPORATED ECH 6509, 02719 & 02745        | 11/04/2014 | P. BRAVO |
| C         | INCORPORATED ECH 6509                       | 01/01/2015 | P. BRAVO |

|    |    |    |    |          |                                            |  |
|----|----|----|----|----------|--------------------------------------------|--|
|    |    | 2  | 41 | 601.2829 | SCREW                                      |  |
|    |    | 2  | 40 | 601.2831 | RIVET                                      |  |
|    |    | 1  | 39 | 646.3716 | DOUBLER                                    |  |
|    |    | 6  | 38 | 601.1953 | SCREW                                      |  |
|    | 2  | 2  | 37 | 646.3715 | DOUBLER                                    |  |
|    | 2  | 2  | 36 | 601.2824 | BOLT                                       |  |
| 12 | 36 |    | 35 | 601.2277 | RIVET                                      |  |
| 6  | 18 |    | 34 | 600.0795 | NUTPLATE                                   |  |
| 3  | 3  |    | 33 | 601.2565 | RIVET                                      |  |
| 1  | 1  |    | 32 | 646.3818 | STRUT BRACKET                              |  |
| 4  | 4  |    | 31 | 601.2822 | BOLT                                       |  |
| 2  | 2  |    | 30 | 646.3812 | GUSSET BRACKET                             |  |
| 8  | 8  |    | 29 | 601.2564 | RIVET                                      |  |
| 1  | 1  |    | 28 | 646.3714 | GUSSET                                     |  |
|    | 1  | 1  | 27 | 646.3810 | FILLER                                     |  |
|    | 3  | 3  | 26 | 601.2830 | SCREW                                      |  |
|    | 2  | 2  | 25 | 601.2825 | BOLT                                       |  |
|    | 1  | 1  | 24 | 646.3811 | RADIUS BLOCK                               |  |
|    | 1  | 1  | 23 | 646.3713 | CLIP                                       |  |
|    | 1  | 1  | 22 | 646.3712 | CLIP                                       |  |
| 8  | 8  |    | 21 | 601.2832 | RIVET                                      |  |
| 14 | 14 |    | 20 | 601.2020 | RIVET                                      |  |
| 4  | 6  | 4  | 19 | 601.2823 | BOLT                                       |  |
|    | 1  | 1  | 18 | 601.2827 | BOLT                                       |  |
|    | 5  | 5  | 17 | 601.2912 | SCREW                                      |  |
| 1  | 1  |    | 16 | 646.3713 | GUSSET                                     |  |
| 1  | 1  |    | 15 | 646.3710 | SUPPORT                                    |  |
|    | 1  | 1  | 14 | 646.3710 | DOUBLER                                    |  |
|    | 1  | 1  | 13 | 646.3710 | CHANNEL                                    |  |
| 14 | 10 | 8  | 12 | 601.1624 | LOCKNUT                                    |  |
| 16 | 32 | 18 | 11 | 601.1607 | WASHER                                     |  |
|    |    |    | 10 | 646.3410 | LH WIPER DEFLECTOR                         |  |
|    |    |    | 9  | 646.3411 | RH WIPER DEFLECTOR                         |  |
|    |    |    | 8  | 646.3411 | STRUT ASSY                                 |  |
|    |    |    | 7  | 646.3411 | STRUT BRACKET                              |  |
|    |    |    | 6  | 646.3411 | STRUT                                      |  |
|    |    |    | 5  | 646.3411 | STRUT                                      |  |
| 2  |    | 2  | 4  | 646.3411 | BRACKET                                    |  |
|    |    |    | 3  | 646.2910 | DEFLECTOR                                  |  |
|    |    |    | 2  | 646.3001 | LOWER CUTTER ASSY                          |  |
|    |    |    | 1  | 646.3301 | UPPER CUTTER ASSY                          |  |
| X  |    |    |    | 646.4006 | LOWER CUTTER FIXED PROVISIONS              |  |
|    | X  |    |    | 646.4005 | LOWER CUTTER REMOVABLE PROVISIONS          |  |
|    |    | X  |    | 646.4004 | FIXED PROVISIONS KIT                       |  |
|    |    |    | X  | 646.4003 | CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS |  |
|    |    |    | X  | 646.4002 | AS350 WIPER DEFLECTOR KIT                  |  |
|    |    |    | X  | 646.4001 | AS350 CABLE CUTTERS KIT                    |  |

|               |  |                                                     |  |
|---------------|--|-----------------------------------------------------|--|
| QTY           |  | PARTS LIST                                          |  |
| NEXT ASSY (S) |  | ORIGINAL DATE (MO-DAY-YR) 08-31-08                  |  |
|               |  | DRAWN BY E. HUFF                                    |  |
|               |  | CHECKED P. BRAVO                                    |  |
|               |  | DRAWING APPROVAL P. BRAVO                           |  |
|               |  | CONTRACT NO.                                        |  |
|               |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |
|               |  | TOLERANCES ARE:                                     |  |
|               |  | 2 PLACES DECIMALS ±.010                             |  |
|               |  | 3 PLACES DECIMALS ±.005                             |  |
|               |  | ANGLES ±.5°                                         |  |
|               |  | SHEET 1 OF 5                                        |  |

**DART** 3030 ENTERPRISE CT.  
AEROSPACE SUITE A VISTA, CA 92081  
APICAL INDUSTRIES, INC. (760)-724-5300  
DBA DART AEROSPACE

**AS350 CABLE CUTTERS KIT**

SHEET 1 OF 5

**Work Order ID 140899**

January 22, 2016 1:47:50 PM

**\*140899\***

Page 1

Item ID: 646.4001

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: AS350 Cable Cutter System

Stop **\*NS2\***Start Date: 1/22/2016 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 2/15/2016 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: SW Date: 20160122 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description                          | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|---------------------------------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr                       | Revision Nbr                                      |                      |         |        |              |               |               |                  |                |
| 646.4000                       | B                                                 |                      |         |        |              |               |               |                  |                |
| 100                            | Document Control                                  | 0.00                 |         |        |              |               |               |                  |                |
| <b>*100*</b>                   | DOCUMENT CONTROL                                  |                      |         |        |              |               |               |                  |                |
| DC                             | Memo                                              | 0.00                 |         |        |              |               |               |                  |                |
| Doc.Control -USB or Paperwork  | Photocopy bluefile & type labels per PPP 646.4001 |                      |         |        |              |               |               |                  |                |
| 110                            | Pick Kit                                          | 0.00                 |         |        |              |               |               |                  |                |
| <b>*110*</b>                   |                                                   |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo                                              | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      |                                                   |                      |         |        |              |               |               |                  |                |
| 120                            | QC4- 100% Inspect kits for completeness           | 0.00                 |         |        |              |               |               |                  |                |
| <b>*120*</b>                   |                                                   |                      |         |        |              |               |               |                  |                |
| QC                             | Memo                                              | 0.00                 |         |        |              |               |               |                  |                |
| Quality Control                |                                                   |                      |         |        |              |               |               |                  |                |

Ship Feb 15

MJS JAN 26 2016